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## OM protein - protein search, using sw model

Run on: June 25, 2003, 11:52:01 ; Search time 24.64 Seconds

(Without alignments)  
70.264 Million cell updates/sec

Title: US-09-869-540a-2\_COPY\_4\_19

Perfect score: 95

Sequence: 1 MLRCMLGRYRRCMV 16

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published.Applications\_AA:\*  
1: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*  
8: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*  
9: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
10: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
11: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
13: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	95	100.0	19	US-09-791-932-183	Sequence 183, App
2	95	100.0	19	US-10-182-509-11	Sequence 11, Appl
3	95	100.0	19	US-09-925-776-7	Sequence 7, Appl
4	87	91.6	19	US-10-182-509-14	Sequence 14, Appl
5	84	88.4	19	US-10-182-509-13	Sequence 13, Appl
6	82	86.3	17	US-09-791-932-184	Sequence 184, App
7	81	85.3	13	US-10-182-509-12	Sequence 12, Appl
8	75	78.9	16	US-10-182-509-10	Sequence 10, Appl
9	66	69.5	11	US-10-182-509-7	Sequence 7, Appl
10	66	69.5	11	US-10-182-509-39	Sequence 39, Appl
11	64	67.4	12	US-10-182-509-8	Sequence 8, Appl
12	64	65.3	11	US-10-182-509-62	Sequence 62, Appl
13	61	64.2	10	US-10-182-509-9	Sequence 9, Appl
14	61	64.2	10	US-10-182-509-37	Sequence 37, Appl
15	61	64.2	11	US-10-182-509-38	Sequence 38, Appl
16	61	64.2	11	US-10-182-509-15	Sequence 15, Appl
17	61	64.2	11	US-10-182-509-18	Sequence 18, Appl
18	61	64.2	11	US-10-182-509-20	Sequence 20, Appl
19	61	64.2	11	US-10-182-509-26	Sequence 26, Appl

20	61	64.2	11	9	US-10-182-509-31	Sequence 31, Appl
21	61	64.2	11	9	US-10-182-509-32	Sequence 32, Appl
22	61	64.2	11	9	US-10-182-509-33	Sequence 33, Appl
23	61	64.2	11	9	US-10-182-509-34	Sequence 34, Appl
24	61	64.2	11	9	US-10-182-509-35	Sequence 35, Appl
25	61	64.2	11	9	US-10-182-509-36	Sequence 36, Appl
26	61	64.2	11	9	US-10-182-509-40	Sequence 40, Appl
27	61	64.2	11	9	US-10-182-509-41	Sequence 41, Appl
28	61	64.2	11	9	US-10-182-509-43	Sequence 43, Appl
29	61	64.2	11	9	US-10-182-509-44	Sequence 44, Appl
30	61	64.2	11	9	US-10-182-509-45	Sequence 45, Appl
31	61	64.2	11	9	US-10-182-509-46	Sequence 46, Appl
32	61	64.2	11	9	US-10-182-509-63	Sequence 63, Appl
33	61	64.2	11	9	US-10-182-509-64	Sequence 64, Appl
34	61	64.2	11	9	US-10-182-509-84	Sequence 84, Appl
35	60	63.2	11	9	US-10-182-509-17	Sequence 17, Appl
36	60	63.2	11	9	US-10-182-509-19	Sequence 19, Appl
37	60	63.2	11	9	US-10-182-509-22	Sequence 22, Appl
38	60	63.2	11	9	US-10-182-509-25	Sequence 25, Appl
39	60	63.2	11	9	US-10-182-509-28	Sequence 28, Appl
40	60	63.2	11	9	US-10-182-509-29	Sequence 29, Appl
41	60	63.2	11	9	US-10-182-509-47	Sequence 47, Appl
42	60	63.2	11	9	US-10-182-509-51	Sequence 51, Appl
43	60	63.2	11	9	US-10-182-509-52	Sequence 52, Appl
44	60	63.2	11	9	US-10-182-509-77	Sequence 77, Appl
45	59	62.1	11	9	US-10-182-509-27	Sequence 27, Appl

## ALIGNMENTS

RESULT 1  
US-09-791-932-183  
Sequence 183, Application US/09791932  
Publication No. US20030003451A1  
GENERAL INFORMATION:  
APPLICANT: Vogeli, Gabriel  
APPLICANT: Parodi, Luis A.  
APPLICANT: Hiesch, Ronald R.  
APPLICANT: Lind, Peter  
APPLICANT: Kayes, Paul S.  
APPLICANT: Ruff, Valerie  
APPLICANT: Huff, Rita M.  
APPLICANT: Wood, Linda S.  
TITLE OF INVENTION: No. US20030003451A1 G Protein-Coupled Receptors Cross-Ref  
FILE REFERENCE: 00325,US1  
CURRENT APPLICATION NUMBER: US/09791,932  
CURRENT FILING DATE: 2001-02-23  
PRIOR APPLICATION NUMBER: 60/184,305  
PRIOR FILING DATE: 2000-02-23  
PRIOR APPLICATION NUMBER: 60/184,304  
PRIOR FILING DATE: 2000-02-23  
PRIOR APPLICATION NUMBER: 60/184,303  
PRIOR FILING DATE: 2000-02-23  
PRIOR APPLICATION NUMBER: 60/184,397  
PRIOR FILING DATE: 2000-02-23  
PRIOR APPLICATION NUMBER: 60/184,247  
PRIOR FILING DATE: 2000-02-23  
PRIOR APPLICATION NUMBER: 60/188,880  
PRIOR FILING DATE: 2000-03-13  
PRIOR APPLICATION NUMBER: 60/217,369  
PRIOR FILING DATE: 2000-07-11  
PRIOR APPLICATION NUMBER: 60/217,370  
PRIOR FILING DATE: 2000-07-11  
PRIOR APPLICATION NUMBER: 60/218,492  
PRIOR FILING DATE: 2000-07-20  
PRIOR APPLICATION NUMBER: 60/186,810  
PRIOR FILING DATE: 2000-03-03  
PRIOR APPLICATION NUMBER: 60/188,064  
PRIOR FILING DATE: 2000-03-09  
PRIOR APPLICATION NUMBER: 60/186,457  
PRIOR FILING DATE: 2000-03-02  
PRIOR APPLICATION NUMBER: 60/213,861

PRIOR FILING DATE: 2000-06-23  
PRIOR APPLICATION NUMBER: 60/194,344  
PRIOR FILING DATE: 2000-04-03  
PRIOR APPLICATION NUMBER: 60/218,337  
PRIOR FILING DATE: 2000-07-14  
NUMBER OF SEQ ID NOS: 184  
SOFTWARE: Patent version 3.0  
SEQ ID NO 183  
LENGTH: 19  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-791-932-183

Query Match 100.0%; Score 95; DB 9; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1.2e-08;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLRCMLGRYRRCQOV 16  
|||||  
DB 4 MLRCMLGRYRRCQOV 19

RESULT 2  
US-10-182-509-11  
Sequence 11, Application US/10182509  
Publication No. US20030105278A1  
GENERAL INFORMATION:  
APPLICANT: Bednarek, Maria A.  
TITLE OF INVENTION: MELANIN-CONCENTRATING HORMONE ANALOGS  
FILE REFERENCE: 20590YP  
CURRENT FILING DATE: 2002-07-31  
PRIOR APPLICATION NUMBER: PCT/US01/03293  
PRIOR FILING DATE: 2001-02-01  
PRIOR APPLICATION NUMBER: 60/179,967  
PRIOR FILING DATE: 2000-02-03  
NUMBER OF SEQ ID NOS: 78  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 11  
LENGTH: 19  
TYPE: PRT  
ORGANISM: Human  
FEATURE:  
NAME/KEY: DISULFID  
LOCATION: (7)...(16)  
US-10-182-509-11

Query Match 100.0%; Score 95; DB 9; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1.2e-08;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLRCMLGRYRRCQOV 16  
|||||  
DB 4 MLRCMLGRYRRCQOV 19

RESULT 3  
US-09-925-776-7  
Sequence 7, Application US/09925776  
Patent No. US2002003607A1  
GENERAL INFORMATION:  
APPLICANT: AMES, ROBERT S., JR.  
APPLICANT: SARAU, HENRY M.  
APPLICANT: FOLEY, JAMES J.  
APPLICANT: BERGSMAN, DEBK J.  
APPLICANT: ELLIS, CATHERINE E.  
APPLICANT: CHAMBERS, JON K.  
TITLE OF INVENTION: A METHOD OF FINDING AGONIST AND  
TITLE OF INVENTION: ANTAGONIST TO HUMAN IICB SPLICE VARIANT  
FILE REFERENCE: GP-50003-D2  
CURRENT APPLICATION NUMBER: US/09/925,776  
PRIOR FILING DATE: 2001-08-09  
PRIOR APPLICATION NUMBER: 60/032,763

PRIOR FILING DATE: 1996-12-11  
PRIOR APPLICATION NUMBER: 08/984,288  
PRIOR FILING DATE: 1997-12-03  
PRIOR APPLICATION NUMBER: 60/073,747  
PRIOR FILING DATE: 1998-02-05  
PRIOR APPLICATION NUMBER: 09/060,504  
PRIOR FILING DATE: 1998-04-15  
NUMBER OF SEQ ID NOS: 7  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 7  
LENGTH: 19  
TYPE: PRT  
ORGANISM: HOMO SAPIENS  
US-09-925-776-7

Query Match 100.0%; Score 95; DB 10; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1.2e-08;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLRCMLGRYRRCQOV 16  
|||||  
DB 4 MLRCMLGRYRRCQOV 19

RESULT 4  
US-10-182-509-14  
Sequence 14, Application US/10182509  
Publication No. US20030105278A1  
GENERAL INFORMATION:  
APPLICANT: Bednarek, Maria A.  
TITLE OF INVENTION: MELANIN-CONCENTRATING HORMONE ANALOGS  
FILE REFERENCE: 20590YP  
CURRENT APPLICATION NUMBER: US/10/182,509  
CURRENT FILING DATE: 2002-07-31  
PRIOR APPLICATION NUMBER: PCT/US01/03293  
PRIOR FILING DATE: 2001-02-01  
PRIOR APPLICATION NUMBER: 60/179,967  
PRIOR FILING DATE: 2000-02-03  
NUMBER OF SEQ ID NOS: 78  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 14  
LENGTH: 19  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: MCH Analog  
NAME/KEY: DISULFID  
LOCATION: (7)...(16)  
US-10-182-509-14

Query Match 91.6%; Score 87; DB 9; Length 19;  
Best Local Similarity 93.3%; Pred. No. 2.2e-07;  
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLRCMLGRYRRCQOV 15  
|||||  
DB 4 MLRCMLGRYRRCQOV 18

RESULT 5  
US-10-182-509-13  
Sequence 13, Application US/10182509  
Publication No. US20030105278A1  
GENERAL INFORMATION:  
APPLICANT: Bednarek, Maria A.  
TITLE OF INVENTION: MELANIN-CONCENTRATING HORMONE ANALOGS  
FILE REFERENCE: 20590YP  
CURRENT APPLICATION NUMBER: US/10/182,509  
CURRENT FILING DATE: 2002-07-31  
PRIOR APPLICATION NUMBER: PCT/US01/03293  
PRIOR FILING DATE: 2001-02-01  
PRIOR APPLICATION NUMBER: 60/179,967

PRIOR FILING DATE: 2000-02-03  
NUMBER OF SEQ ID NOS: 78  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO: 13  
LENGTH: 19  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: MCH Analog  
NAME/KEY: DISULFID  
LOCATION: (7)...(16)  
FEATURE:  
NAME/KEY: MOD\_RES  
LOCATION: (4)...(4)  
OTHER INFORMATION: Xaa - NO. US20030105278AlIleucine  
FEATURE:  
NAME/KEY: MOD\_RES  
LOCATION: (8)...(8)  
OTHER INFORMATION: Xaa - NO. US20030105278AlIleucine  
US-10-182-509-13

Query Match 88.4%; Score 84; DB 9; Length 19;  
Best Local Similarity 93.3%; Pred. No. 6.7e-07;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 LRCMGRVYRPMQV 16  
DB 5 LRCMGRVYRPMQV 19

RESULT 6  
US-09-791-932-184  
Sequence 184, Application US/09791932  
Publication No. US20030003451A1  
GENERAL INFORMATION:  
APPLICANT: Vogel, Gabriel  
APPLICANT: Parodi, Luis A.  
APPLICANT: Hiesch, Ronald R.  
APPLICANT: Lind, Peter  
APPLICANT: Kayes, Paul S.  
APPLICANT: Ruff, Valerie  
APPLICANT: Huff, Rita M.  
APPLICANT: Wood, Linda S.  
TITLE OF INVENTION: No. US20030003451A1 G Protein-coupled Receptors Cross-referer  
FILE REFERENCE: 00325 US1  
CURRENT APPLICATION NUMBER: US/09/791,932  
CURRENT FILING DATE: 2001-02-23  
PRIOR APPLICATION NUMBER: 60/184,305  
PRIOR FILING DATE: 2000-02-23  
PRIOR APPLICATION NUMBER: 60/184,304  
PRIOR FILING DATE: 2000-02-23  
PRIOR APPLICATION NUMBER: 60/184,303  
PRIOR FILING DATE: 2000-02-23  
PRIOR APPLICATION NUMBER: 60/184,397  
PRIOR FILING DATE: 2000-02-23  
PRIOR APPLICATION NUMBER: 60/184,247  
PRIOR FILING DATE: 2000-02-23  
PRIOR APPLICATION NUMBER: 60/188,880  
PRIOR FILING DATE: 2000-03-13  
PRIOR APPLICATION NUMBER: 60/217,369  
PRIOR FILING DATE: 2000-07-11  
PRIOR APPLICATION NUMBER: 60/217,370  
PRIOR FILING DATE: 2000-07-11  
PRIOR APPLICATION NUMBER: 60/218,492  
PRIOR FILING DATE: 2000-07-20  
PRIOR APPLICATION NUMBER: 60/186,810  
PRIOR FILING DATE: 2000-03-03  
PRIOR APPLICATION NUMBER: 60/188,064  
PRIOR FILING DATE: 2000-03-09  
PRIOR APPLICATION NUMBER: 60/186,457  
PRIOR FILING DATE: 2000-03-02  
PRIOR APPLICATION NUMBER: 60/213,861

PRIOR FILING DATE: 2000-06-23  
PRIOR APPLICATION NUMBER: 60/194,344  
PRIOR FILING DATE: 2000-04-03  
PRIOR APPLICATION NUMBER: 60/218,337  
PRIOR FILING DATE: 2000-07-14  
NUMBER OF SEQ ID NOS: 184  
SOFTWARE: Patent version 3.0  
SEQ ID NO: 184  
LENGTH: 17  
TYPE: PRT  
ORGANISM: Salmon  
US-09-791-932-184

Query Match 86.3%; Score 82; DB 9; Length 17;  
Best Local Similarity 80.0%; Pred. No. 1.2e-06;  
Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

OY 2 LRCMGRVYRPMQV 16  
DB 3 MRCMGRVYRPMQV 17

RESULT 7  
US-10-182-509-12  
Sequence 12, Application US/10182509  
Publication No. US20030105278A1  
GENERAL INFORMATION:  
APPLICANT: Bednarek, Maria A.  
TITLE OF INVENTION: MELANIN-CONCENTRATING HORMONE ANALOGS  
FILE REFERENCE: 20590YP  
CURRENT APPLICATION NUMBER: US/10/182,509  
CURRENT FILING DATE: 2002-07-31  
PRIOR APPLICATION NUMBER: PCT/US01/03293  
PRIOR FILING DATE: 2001-02-01  
PRIOR APPLICATION NUMBER: 60/179,967  
PRIOR FILING DATE: 2000-02-03  
NUMBER OF SEQ ID NOS: 78  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO: 12  
LENGTH: 13  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: MCH Analog  
NAME/KEY: DISULFID  
LOCATION: (1)...(10)  
FEATURE:  
NAME/KEY: ACETYLATION  
LOCATION: (1)...(1)  
US-10-182-509-12

Query Match 85.3%; Score 81; DB 9; Length 13;  
Best Local Similarity 100.0%; Pred. No. 1.4e-06;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 4 CMLGRVYRPMQV 16  
DB 1 CMLGRVYRPMQV 13

RESULT 8  
US-10-182-509-10  
Sequence 10, Application US/10182509  
Publication No. US20030105278A1  
GENERAL INFORMATION:  
APPLICANT: Bednarek, Maria A.  
TITLE OF INVENTION: MELANIN-CONCENTRATING HORMONE ANALOGS  
FILE REFERENCE: 20590YP  
CURRENT APPLICATION NUMBER: US/10/182,509  
CURRENT FILING DATE: 2002-07-31  
PRIOR APPLICATION NUMBER: PCT/US01/03293  
PRIOR FILING DATE: 2001-02-01

PRIOR APPLICATION NUMBER: 60/179,967  
PRIOR FILING DATE: 2000-02-03  
NUMBER OF SEQ ID NOS: 78  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 10  
LENGTH: 16  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
NAME/KEY: AMIDATION  
LOCATION: (16)...(16)  
FEATURE:  
NAME/KEY: DISULFID  
LOCATION: (7)...(16)  
OTHER INFORMATION: MCH Analog  
US-10-182-509-10

Query Match 78.9%; Score 65; DB 9; Length 16;  
Best Local Similarity 100.0%; Pred. No. 1.5e-05;  
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRCMLGRVYRPC 13  
DB 4 MRCMLGRVYRPC 16

RESULT 9  
US-10-182-509-7

Sequence 7, Application US/10182509  
Publication No. US20030105278A1  
GENERAL INFORMATION:  
APPLICANT: Bednarek, Maria A.  
TITLE OF INVENTION: MELANIN-CONCENTRATING HORMONE ANALOGS  
FILE REFERENCE: 20590YP  
CURRENT APPLICATION NUMBER: US/10/182,509  
CURRENT FILING DATE: 2002-07-31  
PRIOR APPLICATION NUMBER: PCT/US01/03293  
PRIOR FILING DATE: 2001-02-01  
PRIOR APPLICATION NUMBER: 60/179,967  
PRIOR FILING DATE: 2000-02-03  
NUMBER OF SEQ ID NOS: 78  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 7  
LENGTH: 11  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
NAME/KEY: ACETYLATION  
LOCATION: (1)...(1)  
FEATURE:  
NAME/KEY: AMIDATION  
LOCATION: (11)...(11)  
FEATURE:  
NAME/KEY: DISULFID  
LOCATION: (2)...(11)  
OTHER INFORMATION: MCH Analog  
US-10-182-509-7

Query Match 69.5%; Score 66; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 0.00029;  
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 RCMIGRVYRPC 13  
DB 1 RCMIGRVYRPC 11

RESULT 10  
US-10-182-509-39

Sequence 39, Application US/10182509  
Publication No. US20030105278A1  
GENERAL INFORMATION:  
APPLICANT: Bednarek, Maria A.

TITLE OF INVENTION: MELANIN-CONCENTRATING HORMONE ANALOGS  
FILE REFERENCE: 20590YP  
CURRENT APPLICATION NUMBER: US/10/182,509  
CURRENT FILING DATE: 2002-07-31  
PRIOR APPLICATION NUMBER: PCT/US01/03293  
PRIOR FILING DATE: 2001-02-01  
PRIOR APPLICATION NUMBER: 60/179,967  
PRIOR FILING DATE: 2000-02-03  
NUMBER OF SEQ ID NOS: 78  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 39  
LENGTH: 11  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: MCH Analog  
FEATURE:  
NAME/KEY: AMIDATION  
LOCATION: (11)...(11)  
FEATURE:  
NAME/KEY: DISULFID  
LOCATION: (2)...(11)  
US-10-182-509-39

Query Match 69.5%; Score 66; DB 9; Length 11;  
Best Local Similarity 100.0%; Pred. No. 0.00029;  
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 RCMIGRVYRPC 13  
DB 1 RCMIGRVYRPC 11

RESULT 11  
US-10-182-509-8

Sequence 8, Application US/10182509  
Publication No. US20030105278A1  
GENERAL INFORMATION:  
APPLICANT: Bednarek, Maria A.  
TITLE OF INVENTION: MELANIN-CONCENTRATING HORMONE ANALOGS  
FILE REFERENCE: 20590YP  
CURRENT APPLICATION NUMBER: US/10/182,509  
CURRENT FILING DATE: 2002-07-31  
PRIOR APPLICATION NUMBER: PCT/US01/03293  
PRIOR FILING DATE: 2001-02-01  
PRIOR APPLICATION NUMBER: 60/179,967  
PRIOR FILING DATE: 2000-02-03  
NUMBER OF SEQ ID NOS: 78  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 8  
LENGTH: 12  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
NAME/KEY: ACETYLATION  
LOCATION: (1)...(1)  
FEATURE:  
NAME/KEY: AMIDATION  
LOCATION: (12)...(12)  
FEATURE:  
NAME/KEY: DISULFID  
LOCATION: (2)...(11)  
OTHER INFORMATION: MCH Analog  
US-10-182-509-8

Query Match 67.4%; Score 64; DB 9; Length 12;  
Best Local Similarity 83.3%; Pred. No. 0.00065;  
Matches 10; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 3 RCMIGRVYRPC 14  
DB 1 RCMIGRVYRPC 12

```
RESULT 12
US-10-182-509-62
; Sequence 62, Application US/10182509
; Publication No. US20030105278A1
; GENERAL INFORMATION:
; APPLICANT: Bednarek, Maria A.
; TITLE OF INVENTION: MELANIN-CONCENTRATING HORMONE ANALOGS
; FILE REFERENCE: 20590YP
; CURRENT APPLICATION NUMBER: US/10/182,509
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: PCT/US01/03293
; PRIOR FILING DATE: 2001-02-01
; PRIOR APPLICATION NUMBER: 60/179,967
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 62
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: MCH Analog
; NAME/KEY: ACETYLTATION
; LOCATION: (1)...(1)
; FEATURE:
; NAME/KEY: AMIDATION
; LOCATION: (11)...(11)
; FEATURE:
; NAME/KEY: DISULFID
; LOCATION: (2)...(11)
US-10-182-509-62

Query Match
Best Local Similarity 65.3%; Score 62; DB 9; Length 11;
Matches 10; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 RCMGRTVRC 13
Db 1 RCMGRTVRC 11

RESULT 13
US-10-182-509-9
; Sequence 9, Application US/10182509
; Publication No. US20030105278A1
; GENERAL INFORMATION:
; APPLICANT: Bednarek, Maria A.
; TITLE OF INVENTION: MELANIN-CONCENTRATING HORMONE ANALOGS
; FILE REFERENCE: 20590YP
; CURRENT APPLICATION NUMBER: US/10/182,509
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: PCT/US01/03293
; PRIOR FILING DATE: 2001-02-01
; PRIOR APPLICATION NUMBER: 60/179,967
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: ACETYLTATION
; LOCATION: (1)...(1)
; FEATURE:
; NAME/KEY: AMIDATION
; LOCATION: (10)...(10)
; FEATURE:
; NAME/KEY: DISULFID
; LOCATION: (11)...(10)
; OTHER INFORMATION: MCH Analog
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US-10-182-509-9

Query Match
Best Local Similarity 64.2%; Score 61; DB 9; Length 10;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 CMLGRVTRPC 13
Db 1 CMLGRVTRPC 10

RESULT 14
US-10-182-509-37
; Sequence 37, Application US/10182509
; Publication No. US20030105278A1
; GENERAL INFORMATION:
; APPLICANT: Bednarek, Maria A.
; TITLE OF INVENTION: MELANIN-CONCENTRATING HORMONE ANALOGS
; FILE REFERENCE: 20590YP
; CURRENT APPLICATION NUMBER: US/10/182,509
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: PCT/US01/03293
; PRIOR FILING DATE: 2001-02-01
; PRIOR APPLICATION NUMBER: 60/179,967
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: MCH Analog
; NAME/KEY: AMIDATION
; LOCATION: (10)...(10)
; FEATURE:
; NAME/KEY: DISULFID
; LOCATION: (1)...(10)
US-10-182-509-37

Query Match
Best Local Similarity 64.2%; Score 61; DB 9; Length 10;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 CMLGRVTRPC 13
Db 1 CMLGRVTRPC 10

RESULT 15
US-10-182-509-38
; Sequence 38, Application US/10182509
; Publication No. US20030105278A1
; GENERAL INFORMATION:
; APPLICANT: Bednarek, Maria A.
; TITLE OF INVENTION: MELANIN-CONCENTRATING HORMONE ANALOGS
; FILE REFERENCE: 20590YP
; CURRENT APPLICATION NUMBER: US/10/182,509
; PRIOR FILING DATE: 2002-07-31
; PRIOR APPLICATION NUMBER: PCT/US01/03293
; PRIOR FILING DATE: 2001-02-01
; PRIOR APPLICATION NUMBER: 60/179,967
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: MCH Analog
```

NAME/KEY: ACETYLATION  
LOCATION: (1)...(1)  
FEATURE:  
NAME/KEY: DISULFID  
LOCATION: (1)...(10)  
FEATURE:  
NAME/KEY: AMIDATION  
LOCATION: (10)...(10)  
US-10-182-509-38

Query Match 64.2%; Score 61; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0016;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 4 CMIGRYRPC 13  
|||||||  
DB 1 CMIGRYRPC 10

Search completed: June 25, 2003, 11:58:00  
Job time : 24.64 secs